Special Issue

New Trends in the Use of Microorganisms for Wastewater Treatment and Reuse

Message from the Guest Editor

Water pollution is already a major threat to the environment. Several microbes can be used for wastewater treatment. These microorganisms perform a vital role in the breakdown and removal of nutrients (nitrogen, phosphorous, etc.), organic matter (fats, proteins, etc.), and toxicants (antibiotics, pesticides, etc.) in wastewaters. The application of different microorganisms and/or the increasing in their metabolic activity for water detoxification is a pressing problem at present. This Special Issue is focused on the most up-to-date research (original articles, short communications, and reviews) related but not limited to microbes applications in wastewater treatment, identification and classification of major microbial species involved in wastewater treatment, recombinant technology to increase their bio-efficacy and nontoxic activity, analysis of eco/bio-technological applications of microorganisms for water remediation, identification and characterization of novel degrading metabolic pathways, development of novel microbial-based treatment methods, and development of hybrid bioremediation systems coupling chemical and biological strategies.

Guest Editor

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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